

## Product datasheet for **TG312585**

### **GSTM2 Human shRNA Plasmid Kit (Locus ID 2946)**

#### **Product data:**

<b>Product Type:</b>	shRNA Plasmids
<b>Product Name:</b>	GSTM2 Human shRNA Plasmid Kit (Locus ID 2946)
<b>Locus ID:</b>	2946
<b>Synonyms:</b>	GST4; GSTM; GSTM2-2; GTHMUS
<b>Vector:</b>	pGFP-V-RS (TR30007)
<b>E. coli Selection:</b>	Kanamycin
<b>Mammalian Cell Selection:</b>	Puromycin
<b>Format:</b>	Retroviral plasmids
<b>Components:</b>	GSTM2 - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 2946). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
<b>RefSeq:</b>	<a href="#">BC017836</a> , <a href="#">NM_000848</a> , <a href="#">NM_001142368</a> , <a href="#">NM_000848.1</a> , <a href="#">NM_000848.2</a> , <a href="#">NM_000848.3</a> , <a href="#">NM_001142368.1</a> , <a href="#">BC110380</a> , <a href="#">BC110380.1</a> , <a href="#">BC105038</a> , <a href="#">BC105066</a> , <a href="#">BM924181</a> , <a href="#">NM_000848.4</a>
<b>UniProt ID:</b>	<a href="#">P28161</a>
<b>Summary:</b>	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-transferase that belongs to the mu class. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding the mu class of enzymes are organized in a gene cluster on chromosome 1p13.3 and are known to be highly polymorphic. These genetic variations can change an individual's susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of certain drugs. [provided by RefSeq, Jul 2008]
<b>shRNA Design:</b>	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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**Performance  
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).